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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,664	09/29/2003	Gary Palmer	506.2	8274
26109	7590	07/29/2005	EXAMINER	
THOMAS E. MALYSZKO SUITE 700 205 - 5 AVENUE, S.W. CALGARY, AB T2P 2V7 CANADA			LAWRENCE JR, FRANK M	
			ART UNIT	PAPER NUMBER
			1724	
DATE MAILED: 07/29/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/671,664

Applicant(s)

PALMER, GARY

Examiner

Frank M. Lawrence

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 2-9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Canada on September 27, 2002. It is noted, however, that applicant has not filed a certified copy of the Canadian application as required by 35 U.S.C. 119(b).

Specification

2. The disclosure is objected to because of the following informalities: In line 5 of claim 6, the extra period "." should be removed.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 3-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 3-9 are indefinite because they each depend from canceled claim 1. It is assumed for examination that they depend from claim 2.

Double Patenting

5. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The

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filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

6. Claims 2-9 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-8 of copending Application No. 10/809,822. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

8. Claims 1 and 9 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 21 of copending Application No. 10/809,822. Although the conflicting claims are not identical, they are not patentably distinct from each other because all of the limitations of the instant claims are completely envisioned and encompassed by the limitations of the co-pending claims, and one having ordinary skill in the art would have known that the system would be capable of functioning without a liquid pump if another means such as gravitational force were used to drive the liquid stream, and that different absorption pressures could be used.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 2-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Carter et al. (4,406,868).

11. Carter et al. '868 teach a process for selectively absorbing hydrogen sulfide from a gas stream containing hydrogen sulfide, carbon dioxide, and a product gas, comprising counter-currently contacting the gas stream (94) with an MDEA absorbent from the bottom of a staged, constant pressure column (2), creating a rich absorbent containing hydrogen sulfide and carbon dioxide (26) and a sweetened product gas (96), passing the rich absorbent to a regeneration stripper (16) to produce a lean absorbent (40) that is recycled back to the absorption column (2), and passing a stripped gas product (61) having an increased ratio of hydrogen sulfide to carbon dioxide to a different absorption column or to a mid-point of the absorption column to increase the hydrogen sulfide loading of the absorbent (abstract, figure, col. 2, lines 38-59, col. 3, lines 24-54, col. 4, line 29 to col. 6, line 23, claims 1, 9, 11). The mid-point is selected to lessen the detrimental effect of a high CO₂:H₂S ratio on overall absorber H₂S removal efficiency.

12. Claims 2-9 are rejected under 35 U.S.C. 102(b) as being anticipated by the Great Britain reference (GB 1,551,692).

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13. GB '692 teaches a process for selectively absorbing hydrogen sulfide from a gas stream containing hydrogen sulfide, carbon dioxide, and a product gas, comprising a first embodiment including counter-currently contacting the gas stream (1) with an MDEA absorbent from the bottom of a staged column (2) at a pressure of 20 bar, creating a rich absorbent (4) containing hydrogen sulfide and carbon dioxide and a sweetened product gas (3), passing the rich absorbent to a regeneration stripper (5) to produce a lean absorbent (16) that is recycled back to the absorption column (2), passing a portion of a stripped gas product (12) having an increased ratio of hydrogen sulfide to carbon dioxide to a second absorption column (13) operating at a pressure of 1.1 bar, contacting the gas in the second absorption column with a second feed of lean MDEA (18), passing a portion of gas (19) from the second absorption column back to a mid-point of the first absorption column to increase the H₂S:CO₂ ratio in gas (6) being fed to a Claus process (8) (figure 1, p. 3, lines 32-45, p. 4, line 57, p. 4, line 123 to p. 5, line 105). A second embodiment includes counter-currently contacting the gas stream (101) with the absorbent at a mid-point of an absorber (102) to generate a rich absorbent (104) and a sweetened product gas (103), regenerating the rich absorbent in a stripper (105), recycling the regenerated lean absorbent (117) back to the top of the absorber, and directing a portion of the recovered sour gas (112) back to the bottom of the absorber to increase the H₂S:CO₂ ratio (figure 2).

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional references listed on the attached PTO-892 form disclose sour gas absorption systems.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank M. Lawrence whose telephone number is 571-272-1161. The examiner can normally be reached on Mon-Thurs 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frank M. Lawrence
Primary Examiner
Art Unit 1724

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Frank Lawrence
7-15-05